

## **IN THE CLAIMS**

Please amend the claims as follows:

1. (Previously Presented) A golf ball comprising a core and a cover, wherein at least one layer comprises a composition comprising:

a polyurea prepolymer; and

a curing agent, wherein at least one of the polyurea prepolymer and curing agent comprise at least one trifunctional material, and wherein the composition has an average molecular weight between crosslinks of about 3000 or greater.

2. (Original) The golf ball of claim 1, wherein the at least one trifunctional material is selected from the group consisting of a trifunctional isocyanate, a trifunctional polyol, a trifunctional amine-terminated component, a trifunctional hydroxy-terminated curing agent, a trifunctional amine-terminated curing agent, a trifunctional isocyanurate, and combinations thereof.

3. (Canceled)

4. (Canceled)

5. (Canceled)

6. (Previously Presented) The golf ball of claim 1, wherein the polyurea prepolymer comprises the at least one trifunctional material.

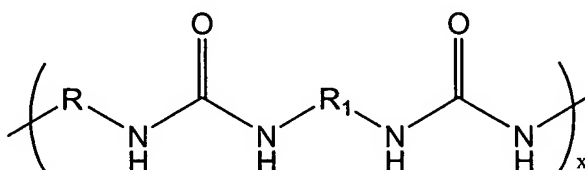
7. (Previously Presented) The golf ball of claim 1, wherein the curing agent comprises the at least one trifunctional material.

8. (Canceled)

9. (Previously Presented) A golf ball comprising a core, an inner cover layer, and an outer cover layer, wherein the outer cover layer is formed of a composition comprising:

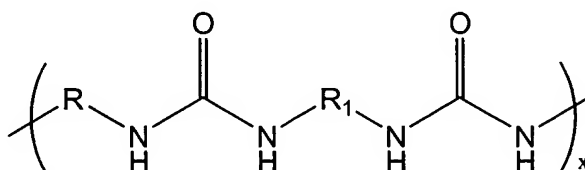
a polyurea prepolymer, wherein the polyurea prepolymer comprises an isocyanate and an amine-terminated compound; and a curing agent, wherein at least one of the isocyanate, amine-terminated compound, or curing agent has three functional groups, and wherein the composition has an average molecular weight between crosslinks is about 3000 or greater.

10. (Previously Presented) The golf ball of claim 9, wherein the composition comprises linkages having the general formula:



wherein x is the chain length, wherein R<sub>1</sub> comprises a straight chain or branched hydrocarbon chain having about 1 to about 20 carbons, a polyether chain, a polyester chain, a polycaprolactone chain, or polycarbonate chain, and wherein R comprises aliphatic, aromatic, or araliphatic hydrocarbons.

11. (Previously Presented) The golf ball of claim 9, wherein the polyurea prepolymer comprises a backbone consisting essentially of linkages having the general formula:



wherein x is the chain length, wherein R<sub>1</sub> comprises a straight chain or branched hydrocarbon chain having about 1 to about 20 carbons, a polyether chain, a polyester chain, a polycaprolactone chain, or polycarbonate chain, and wherein R comprises aliphatic, aromatic, or araliphatic hydrocarbons.

12. (Original) The golf ball of claim 9, wherein the composition comprises at least one of a trifunctional isocyanate, a trifunctional polyol, a trifunctional amine-terminated component, a trifunctional hydroxy-terminated curing agent, a trifunctional amine-terminated curing agent, a trifunctional isocyanurate, or combinations thereof.

13. – 14. (Canceled)

15. (Currently Amended) A golf ball having at least one layer comprising a chemical composition comprising:

a polyurethane prepolymer comprising an isocyanate and a polyol; and  
a curing agent selected from the group consisting of propylene-oxide based triamine, ethylene oxide triamine, diethylene triamine, trimethylolpropane-based triamine, glycerin-based triamine, N-(2-aminoethyl)-1,3-propylenediamine, and mixtures thereof,  
~~wherein at least one of the isocyanate, polyol, or curing agent comprises three functional groups, and~~ wherein the composition has an average molecular weight between crosslinks of about 3000 or greater.

16. (Previously Presented) The golf ball of claim 15, wherein the average molecular weight between crosslinks is about 4000 or greater.

17. (Currently Amended) The golf ball of claim 15, wherein the composition further comprises at least one trifunctional component selected from the group consisting of a trifunctional isocyanate, a trifunctional polyol, ~~a trifunctional amine-terminated component, a trifunctional hydroxy-terminated curing agent, a trifunctional amine-terminated curing agent,~~ a trifunctional isocyanurate, and combinations thereof.

18. (Previously Presented) The golf ball of claim 17, wherein the isocyanate is selected from the group consisting of an isocyanurate trimer of hexamethylene diisocyanate, an isocyanurate trimer of toluene diisocyanate, an isocyanurate trimer of isophorone diisocyanate, a blend of isophorone diisocyanate and an isocyanurate trimer of isophorone diisocyanate, and mixtures thereof.

19. (Previously Presented) The golf ball of claim 15, wherein the composition has at least one of a COR profile that exhibits an increase as temperature decreases from about 70°F to about 20°F, a tan  $\delta$  profile that exhibits a decrease as temperature decreases from about 70°F to about 20°F, or both.

20. (Previously Presented) The golf ball of claim 1, wherein the average molecular weight between crosslinks is about 4000 or greater.

21. (Previously Presented) The golf ball of claim 1, wherein the at least one trifunctional material is selected from the group consisting of an isocyanurate trimer of hexamethylene diisocyanate, an isocyanurate trimer of toluene diisocyanate, an isocyanurate trimer of isophorone diisocyanate, a blend of isophorone diisocyanate and an isocyanurate trimer of isophorone diisocyanate, and mixtures thereof.

22. (Previously Presented) The golf ball of claim 9, wherein the average molecular weight between crosslinks is about 4000 or greater.

23. (Previously Presented) The golf ball of claim 9, wherein the trifunctional curing agent is selected from the group consisting of propylene-oxide based triamine, ethylene oxide triamine, diethylene triamine, trimethylolpropane-based triamine, glycerin-based triamine, N-(2-aminoethyl)-1,3-propylenediamine, and mixtures thereof.

24. (Previously Presented) The golf ball of claim 15, wherein the isocyanate is selected from the group consisting of an isocyanurate trimer of hexamethylene diisocyanate, an isocyanurate trimer of toluene diisocyanate, an isocyanurate trimer of isophorone diisocyanate, a blend of isophorone diisocyanate and an isocyanurate trimer of isophorone diisocyanate, and mixtures thereof.

25. (Canceled)

Please add the following new claims:

26. (New) A golf ball having at least one layer comprising a chemical composition

comprising:

a polyurethane prepolymer comprising an isocyanate and a polyol; and  
a curing agent,  
wherein the isocyanate comprises three functional groups, and wherein the  
composition has an average molecular weight between crosslinks of about  
3000 or greater.

27. (New) The golf ball of claim 26, wherein the curing agent is selected from the group consisting of propylene-oxide based triamine, ethylene oxide triamine, diethylene triamine, trimethylolpropane-based triamine, glycerin-based triamine, N-(2-aminoethyl)-1,3-propylenediamine, and mixtures thereof.

28. (New) The golf ball of claim 26, wherein the isocyanate is selected from the group consisting of an isocyanurate trimer of hexamethylene diisocyanate, an isocyanurate trimer of toluene diisocyanate, an isocyanurate trimer of isophorone diisocyanate, a blend of isophorone diisocyanate and an isocyanurate trimer of isophorone diisocyanate, and mixtures thereof.